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February 23, 2017

Mrs. Joyce Ackerman  
On-Scene Coordinator  
United States Environmental Protection Agency, Region VIII  
Mail Code: 8EPR-ER  
1595 Wynkoop Street  
Denver, CO 80202

Re: Tatooine Industries Assessment  
Burns, Laramie County, Wyoming  
TDD: 0001/1606-19  
DCN: W0388.1A.01115  
WO#: 20408.012.001.0388.00

Dear Mrs. Ackerman:

The United States Environmental Protection Agency (EPA) tasked the Weston Solutions, Inc., (WESTON®) Superfund Technical Assessment and Response Team (START) under Technical Direction Document (TDD) 0001/1606-19 to support EPA's assessment at the Tatooine Industries facility (the Site) in Burns, Laramie County, Wyoming. The Site is located approximately 20 miles east of Cheyenne, Wyoming. The assessment was initiated to determine threats to human health and the environment from PCB containing oils, leaded glass, and old smoke detectors. Figures are provided in **Attachment A**. A copy of the site logbook and HazCat sheets are provided in **Attachment B**. Photo documentation is provided in **Attachment C**. Laboratory report is provided in **Attachment D**. Abandoned mercury emergency response trip report is provided in **Attachment E**.

#### **SITE DESCRIPTION**

The Site (North 41.157761°, West -104.446838°) is located in primarily pastoral lands east of Cheyenne, Laramie County, Wyoming (**Attachment A**, Figure 1). The site is roughly 7 acres, and is not fenced on any side of the property (**Attachment A**, Figure 2). The Site is bordered to the north, west, and east by pastoral lands, and by the I-80 access road to the south.

#### **BACKGROUND**

The Tatooine Industries facility started as an electronic waste recycling facility. Tatooine Industries eventually closed the facility, and now it is essentially abandoned. During an abandoned mercury emergency response on June 30, 2016, (**Attachment E**) START inventoried the Site making note of hazardous or potentially hazardous materials. Fourteen (14) drums and containers located inside the main building were identified as unknowns, or had labels stating either "containing PCBs" or "Asbestos". START also noted cathode ray tube (CRT) style televisions, computer monitors, PCB ballasts, and smoke detectors on the Site. Prior to being an electronic recycling facility, the site was reportedly a helicopter maintenance facility. Three above ground storage tanks (ASTs) were on site during the assessment.

## ASSESSMENT ACTIVITIES

On October 3, 2016, START personnel Eric Sandusky, Joe Rudi and Michael Cherny, mobilized from Denver, Colorado to the Site located in Burns, Wyoming. Upon arriving at the Site, START met EPA OSC Joyce Ackerman, and Joel Frost from the Wyoming Department of Environmental Quality (WYDEQ). Mr. Frost contacted the local Sheriff's department to clear the buildings of possible vagrants. START, EPA, and WYDEQ walked the perimeter of the Site to assess the amount of CRT televisions in the debris piles on the exterior of the main building. During the site walk, three ASTs, two labeled "Jet A" and one labeled "Propane", and an unknown underground storage tank (UST) were discovered. START did not attempt to sample or open any ASTs. START opened the UST and discovered that it was a septic tank, no samples were collected. Two large open crates of light ballasts were found on the northwest corner of the main building. The labels did not contain "no PCB" stickers. Approximately 15 drums labeled "Salvage" were discovered on the south side of the main warehouse building. All drums were opened and contained nothing of significance. A secondary warehouse was opened by WYDEQ to assess the amount of CRT televisions inside the warehouse. During the assessment, CRT monitors and televisions were found stacked approximately 8 ft. high throughout the warehouse. The warehouse is 80 ft. wide by 100 ft. long. Approximately 57,000 cubic feet of CRT computer screens and televisions are inside the warehouse. On the Site grounds, nine (9) - 53 ft. semi-tractor trailers were noted that contained CRT monitors and televisions. Each trailer was approximately 80% full. All nine trailers add up to approximately 23,000 cubic feet of CRT monitors and televisions.

During the initial assessment, four oxygen cylinders, one acetylene cylinders, various paints and stains, cleaning products, drums full of batteries, electronic waste, static sensitive materials and a box labeled "smoke detectors, ballasts and thermostats" was found. The box was opened during the second walk through and screened with a radiation meter. No radioactive sources were discovered.

During the initial assessment, fourteen (14) drums located inside the main building were documented as unknowns. After performing acceptable calibration verification checks, and donning level B personal protective equipment (PPE), START began to open the unknown drums for assessment. START utilized a Multi-RAE Pro to screen the drums for Volatile Organic Compounds (VOC), Lower Explosive Limit (LEL), Carbon Dioxide (CO), Hydrogen Sulfide (H<sub>2</sub>S), and Oxygen (O<sub>2</sub>). Readings were recorded in the Site logbook, and samples were collected for hazard categorization (Hazcat). After samples were taken, all the drums were closed. Once all drums and containers were sampled, START began to Hazcat the samples. Of the fourteen (14) drums opened, twelve (12) had enough volume to collect a sample, one (1) was empty, and one (1) contained asbestos that was doubled bagged and taped up. START did not collect a sample of the asbestos. START performed twelve (12) Hazcat tests on the samples. The Hazcat results indicated three (3) drums contained a combustible material (drums 4, 8, and 11), two (2) drums contained chlorinated material (drums 4 and 14), one (1) drum contained a corrosive (drum 12), one (1) container contained an oxidizer (drum 14), and one (1) container contained a flammable (drum 13). All other drums were determined to be non-hazardous. The table below shows the HazCat results.

Drum Number	Drum Size (Gal)	Amount of Material Inside the Drum	HazCat	HazCat Results
TI-01	55	2 inches	Yes	No HazCat Detections
TI-02	55	2 inches	Yes	No HazCat Detections
TI-03	55	2 inches	Yes	No HazCat Detections
TI-04	30	1 inches	Yes	Combustible, Chlorinated
TI-05	55	Full	No	ACM
TI-06	55	0.5 inch	Yes	No HazCat Detections
TI-07	55	6 inches	Yes	No HazCat Detections
TI-08	55	Full	Yes	Combustible
TI-09	55	1 inch	Yes	No HazCat Detections
TI-10	55	Empty	No	Empty
TI-11	1	Half Full	Yes	Flammable
TI-12	55	Half Full	Yes	Corrosive
TI-13	25	0.5 inches	Yes	Combustible
TI-14	5	Full	Yes	Chlorinated, Oxidizer

Drum 8 was the only drum which was noted as being full of liquid. Hazcat results indicated that the liquid was also a combustible. START collected one sample from drum 8 for VOC analysis. Sample ID TI-08-20161003 was collected from drum 8, and was submitted to the lab for analysis. The Sample results are shown in the table below, and the lab analysis report is in **Attachment D**.

Sample ID	Sample Time	Sample Date	Analyte	Result (µg/L)
TI-08-20161003	15:10	10/3/2016	PCE	1360
TI-08-20161003	15:10	10/3/2016	Toluene	60.8J
TI-08-20161003	15:10	10/3/2016	1,2,4-Trimethylbenzene	116
TI-08-20161003	15:10	10/3/2016	Xylene (total)	343

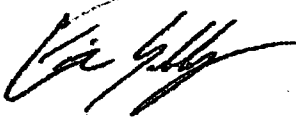
START also collected two (2) composite samples of glass from various piles on the exterior of the warehouse, and from the interior of the warehouse. One (1) sample (TI-FL-02-20161003) consisted of clear glass collected from piles around the exterior of the warehouse, and one (1) sample (TI-GL-01-20161003) consisted of coated glass collected from four (4) Gaylord boxes on the interior of the building. The samples were submitted to a laboratory for toxicity characteristic leaching procedure (TCLP) analysis. Sample results are shown in the table below, and the lab analysis report is in **Attachment D**.

Sample ID	Sample Time	Sample Date	Result (mg/L)
TI-GL-01-20161003	13:50	10/3/2016	145
TI-GL-02-20161003	13:53	10/3/2016	249

START returned to Denver on 10/3/2016, dropped the samples off at the laboratory on 10/4/2016 for a 5-day turn-around time.

If there are any questions or comments regarding this report, please do not hesitate to contact me at [eric.sandusky@westonsolutions.com](mailto:eric.sandusky@westonsolutions.com) or 303-729-6100.

Very truly yours,  
WESTON SOLUTIONS, INC.



Eric Sandusky  
START Project Leader

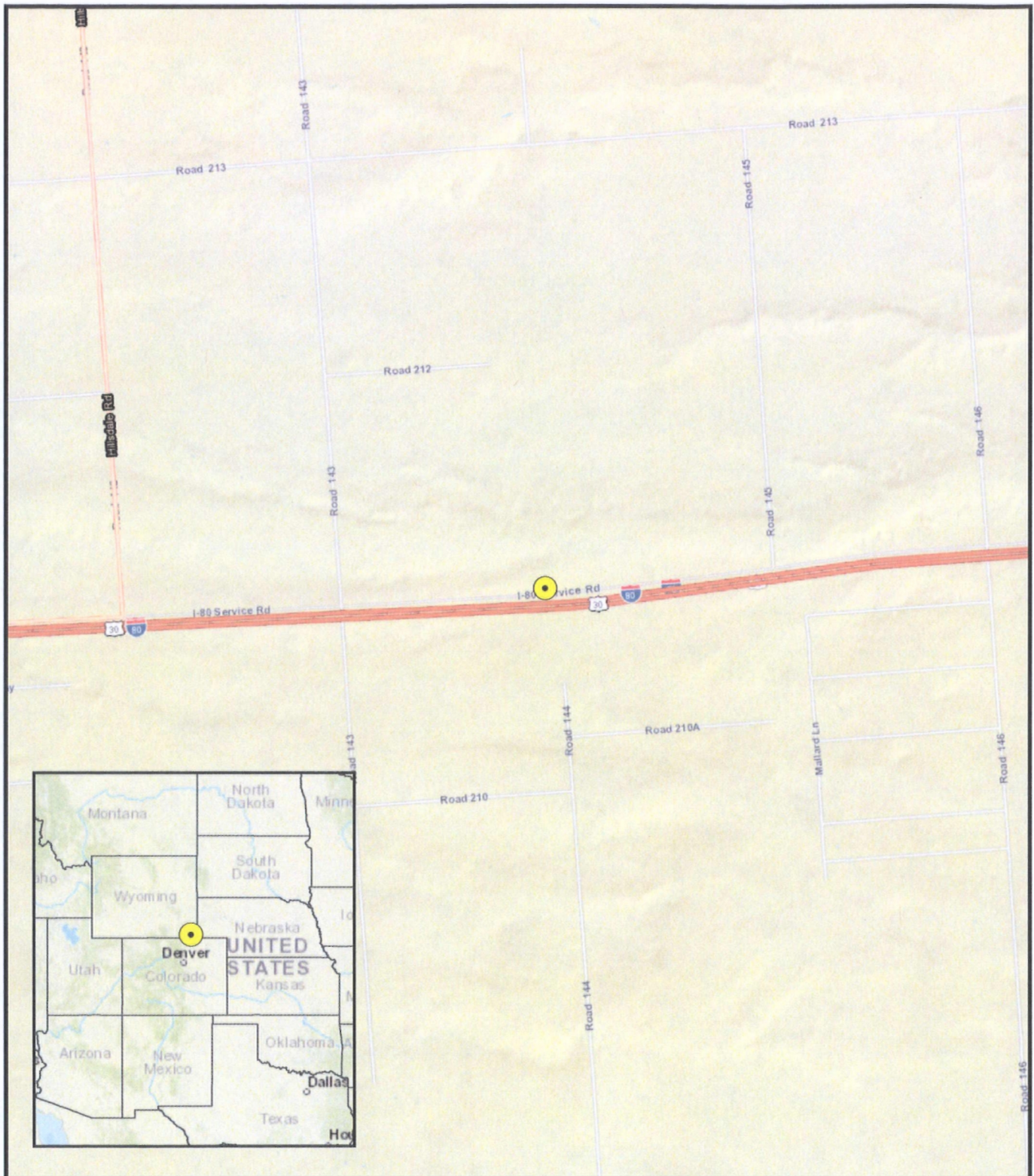
Attachments:

- A – Figures
- B – Copy of Site logbook
- C – Photographic Log
- D – Laboratory Report
- E – Abandoned Mercury Emergency Response Trip Report

cc: Robert Reed, Project Manager  
START DCN File

## **Attachment A**

### **Figures**



## Legend

● Site Location

0 0.2 0.4 0.8 Miles



Prepared for:  
U.S. EPA Region 8



Contract No.:  
EP-S8-13-01

TDD:  
1606-19  
TO:  
0001

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Prepared By:  
Weston Solutions, Inc.  
START IV

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## FIGURE 1 SITE LOCATIONS MAP TATOONINE INDUSTRIES BURNS, WYOMING

Date: 10/18/2016



Prepared for:  
U.S. EPA Region 8



Contract No.:  
EP-S8-13-01

TDD:  
1606-19  
TO:  
0001

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**FIGURE 2**  
**SITE FEATURES MAP**  
**TATOOINE INDUSTRIES**  
**BURNS, WYOMING**

Date: 2/23/2017

**Attachment B**

**Site Logbook**

Outdoor writing products  
for Outdoor writing people

RIR #351



Stapled tagboard field



ITT Environmental (907) 770-904



All components of  
this product are recyclable

**Rite in the Rain**

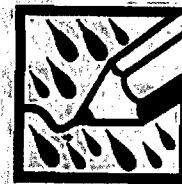
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ALL-WEATHER  
**FIELD**

No 351

Tatopine Industry  
RS

10/3/2016

Book 1.1

19/3/16 Taborne Industries RS E.S. S. S.

0800- START (M. Cherry, J. Pudi, E. Sandak, J.) depart the EPA warehouse for the site.

1000- Arrive on site with EPA OSL J. Ackerman & W. Perry  
NEA rep. Joel Frost. H+S Meeting: Slips, trips & falls, snakes, broken glass, unknown drugs, Level B activities  
WX: 70°F & Sunny. Breezy.

1020: Begin out door assessment. Sherrif arrives & clears buildings.

1200: START begins to prepare for drug sampling.

1220: START begins sample unknowns for hazard

Drum 01 = 2 inches liquid, SS, 95,000 PPB VOL 2% LEL

02 = 2 inches liquid, SS, 13,000 PPB VOL

03 = 2 inches liquid, SS, 35,400 PPB VOL

04 = 1 inch liquid, SS, 300 PPB VOL

05 = Bags of ACM SS,

06 = 1/2 inch liquid, SS, 2,600 PPB VOL

07 = 6 inches liquid, SS, 2,700 PPB VOL

08 = Full liquid, SS, 29,000 PPB, 3% LEL

09 = 1 inch liquid, SS, 4,000 PPB

10 = Empty SS, 180 PPB

11 = 1/2 full liquid

12 = 1/2 Full solid SS

13 = 1/2 inch 2 Spill 350 PPB

14 = Full Spill

15 =

16 =

17 =

7 electronic waste.

10/3/16 Taborne Industries E.S. S. S.

1320- START Finished Level B Sampling

1350- START collects sample TI-GL-01 from suspected leaded glass.

1353- START collects sample TI-GL-02 from suspected non-leaded glass.

1410- START begins haz chem sampling

TI-12 - Dissolves, white solid, pH 14, No oxidizer, No sulfide, No cyanide, Non chlorinated.

TI-14 - 2 phases Black & Orange Black - dissolves, pH 4, oxidizer, Non flammable, chlorinated

Orange - dissolves, pH 4, oxidizer, Non flammable, chlorinated

\* START finds "Hog lamp" on the east side of the main warehouse.

\* See Hazchem sheets for results.

1510- START collects sample TI-08-20161003 from Drum 8 for VOL analysis.

1600- START departs the site for Denver.

*[Signature]*

Ritter in the Rain

## Basic Chemical Hazardous Classification Data Sheet

Project Name: Talcoine Industries RS Date: 10/3Project No: \_\_\_\_\_ Sample ID No: TI-Q1

Notes: \_\_\_\_\_ Analyst: \_\_\_\_\_

<b>Sample Matrix:</b> <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid		<b>Oxidizer Test (Water soluble only)</b>	
<b>Viscosity:</b> <input type="checkbox"/> Water <input checked="" type="checkbox"/> Coats <input type="checkbox"/> Thick <input type="checkbox"/> N/A <input type="checkbox"/> Like <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Syrup		<input type="checkbox"/> Color Change (Oxidizer) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No oxidizer)	
<b>Color:</b> <u>Drk Brn</u> <input type="checkbox"/> N/A		<b>Sulfide Test (pH &gt; 7 &amp; no oxidizer)</b>	
<b>No. of Phases:</b> <u>1</u> <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> N/A		<input type="checkbox"/> Color Change (Sulfide present) <input type="checkbox"/> N/A	
<b>Reported Odor:</b> <u>None</u> <input type="checkbox"/> N/A		<input type="checkbox"/> No Color Change (No sulfides)	
<b>Water Solubility/Reactivity Test</b>		<b>Cyanide Test (pH &gt; 7 &amp; no oxidizer)</b>	
<b>(Add sample to water)</b>		<b>Type</b> Rhodinine Ferrous Citrate	
<b>Temperature Change</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
<b>Effervescence or gasses</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Type</b> Rhodinine Ferrous Citrate	
<b>Solubility in Water</b> <input type="checkbox"/> N/A		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
<input type="checkbox"/> Dissolves (soluble/miscible)		<b>Flammability/Flame Test</b>	
<input checked="" type="checkbox"/> Does not dissolve (insoluble)		<b>CGI Reading</b> _____ <input type="checkbox"/> N/A	
<input type="checkbox"/> 2 or more phases (immiscible)		<input type="checkbox"/> Flammable: Ignites easily	
<input type="checkbox"/> Miscible (emulsion like)		<input type="checkbox"/> Combustible: Sample ignites	
<input type="checkbox"/> Slightly soluble		<input checked="" type="checkbox"/> Non-Flammable: Does not ignite	
<b>Specific Gravity:</b>		<b>Chlorinated Test (Copper Wire)</b>	
<input checked="" type="checkbox"/> Floats (<1) <input type="checkbox"/> Sinks (>1) <input type="checkbox"/> N/A		<input type="checkbox"/> Green Flame (positive chlorinated)	
<b>Corrosivity Test (pH paper)</b>		<b>Other:</b> <u>None</u> <input type="checkbox"/> N/A	
<b>pH:</b> <u>5</u> <input type="checkbox"/> N/A		<b>Other Tests:</b>	
<input type="checkbox"/> pH < 2 Corrosive Acid <input type="checkbox"/> pH < 7 Acidic		<b>Sugar Test:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH > 12.5 Corrosive Base <input type="checkbox"/> pH > 7 Base/Alkaline		<b>Starch Test:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Liquid pH _____ <input type="checkbox"/> Paste pH _____		<b>Protein Test:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Notes: \_\_\_\_\_

## Basic Chemical Hazardous Classification Data Sheet

Project Name: Tadpole Industries RS Date: 10/3Project No: \_\_\_\_\_ Sample ID No: TE-02

Notes: \_\_\_\_\_ Analyst: \_\_\_\_\_

Sample Matrix: <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid		Oxidizer Test (Water soluble only)	
Viscosity: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Coats <input type="checkbox"/> Thick <input type="checkbox"/> N/A <input type="checkbox"/> Like <input type="checkbox"/> Surface <input type="checkbox"/> Syrup		<input type="checkbox"/> Color Change (Oxidizer) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No oxidizer)	
Color: <u>Orange</u> <input type="checkbox"/> N/A		Sulfide Test (pH > 7 & no oxidizer)	
No. of Phases: <u>1</u> <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> N/A		<input type="checkbox"/> Color Change (Sulfide present) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No sulfides)	
Reported Odor: <input type="checkbox"/> N/A		Cyanide Test (pH > 7 & no oxidizer)	
Water Solubility/Reactivity Test		Type Rhodinine Ferrous Citrate	
(Add sample to water)		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Temperature Change <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Type Rhodinine Ferrous Citrate	
Effervescence or gasses <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Solubility in Water <input type="checkbox"/> N/A		Flammability/Flame Test	
<input type="checkbox"/> Dissolves (soluble/miscible)		CGI Reading _____ <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Does not dissolve (insoluble)		<input type="checkbox"/> Flammable: Ignites easily	
<input type="checkbox"/> 2 or more phases (immiscible)		<input type="checkbox"/> Combustible: Sample ignites	
<input type="checkbox"/> Miscible (emulsion like)		<input checked="" type="checkbox"/> Non-Flammable: Does not ignite	
<input type="checkbox"/> Slightly soluble		Chlorinated Test (Copper Wire)	
Specific Gravity:		<input type="checkbox"/> Green Flame (positive chlorinated)	
<input checked="" type="checkbox"/> Floats (<1) <input type="checkbox"/> Sinks (>1) <input type="checkbox"/> N/A		Other: <u>None</u> <input type="checkbox"/> N/A	
Corrosivity Test (pH paper)		Other Tests:	
pH: <u>5</u> <input type="checkbox"/> N/A		Sugar Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH < 2 Corrosive Acid <input type="checkbox"/> pH < 7 Acidic		Starch Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH > 12.5 Corrosive Base <input type="checkbox"/> pH > 7 Base/Alkaline		Protein Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Liquid pH _____ <input type="checkbox"/> Paste pH _____			

Notes: \_\_\_\_\_

## Basic Chemical Hazardous Classification Data Sheet

Project Name: Takamine Industries RS Date: 10/3Project No: \_\_\_\_\_ Sample ID No: TI-03

Notes: \_\_\_\_\_ Analyst: \_\_\_\_\_

Sample Matrix: <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid		Oxidizer Test (Water soluble only)	
Viscosity: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Coats <input type="checkbox"/> Thick <input type="checkbox"/> N/A <input type="checkbox"/> Like <input type="checkbox"/> Surface <input type="checkbox"/> Syrup		<input type="checkbox"/> Color Change (Oxidizer) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No oxidizer)	
Color: <u>Dark Brn</u> <input type="checkbox"/> N/A		Sulfide Test (pH>7 & no oxidizer)	
No. of Phases: <u>1</u> <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> N/A		<input type="checkbox"/> Color Change (Sulfide present) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No sulfides)	
Reported Odor: <u>oil</u> <input type="checkbox"/> N/A		Cyanide Test (pH>7 & no oxidizer)	
Water Solubility/Reactivity Test		Type Rhodinine Ferrous Citrate	
(Add sample to water)		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Temperature Change <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Type Rhodinine Ferrous Citrate	
Effervescence or gasses <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Solubility in Water <input type="checkbox"/> N/A		Flammability/Flame Test	
<input type="checkbox"/> Dissolves (soluble/miscible)		CGI Reading _____ <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Does not dissolve (insoluble)		<input type="checkbox"/> Flammable: Ignites easily	
<input type="checkbox"/> 2 or more phases (immiscible)		<input type="checkbox"/> Combustible: Sample ignites	
<input type="checkbox"/> Miscible (emulsion like)		<input checked="" type="checkbox"/> Non-Flammable: Does not ignite	
<input type="checkbox"/> Slightly soluble		Chlorinated Test (Copper Wire)	
Specific Gravity:		<input type="checkbox"/> Green Flame (positive chlorinated)	
<input checked="" type="checkbox"/> Floats (<1) <input type="checkbox"/> Sinks (>1) <input type="checkbox"/> N/A		Other: <u>None</u> <input type="checkbox"/> N/A	
Corrosivity Test (pH papers)		Other Tests:	
pH: <u>5</u> <input type="checkbox"/> N/A		Sugar Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH<2 Corrosive Acid <input type="checkbox"/> pH<7 Acidic		Starch Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH>12.5 Corrosive Base <input type="checkbox"/> pH>7 Base/Alkaline		Protein Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Liquid pH _____ <input type="checkbox"/> Paste pH _____			

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Basic Chemical Hazardous Classification Data Sheet

Project Name: Talpoine Endzones RS Date: 10/3Project No: \_\_\_\_\_ Sample ID No: TI-04

Notes: \_\_\_\_\_ Analyst: \_\_\_\_\_

Sample Matrix: <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid		Oxidizer Test (Water soluble only)	
Viscosity: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Coats <input type="checkbox"/> Thick <input type="checkbox"/> N/A Like Surface Syrup		<input type="checkbox"/> Color Change (Oxidizer) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No oxidizer)	
Color: <u>Dark Brown → Black</u> <input type="checkbox"/> N/A		Sulfide Test (pH>7 & no oxidizer)	
No. of Phases: <u>1</u> <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> N/A		<input type="checkbox"/> Color Change (Sulfide present) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No sulfides)	
Reported Odor: <input type="checkbox"/> N/A		Cyanide Test (pH>7 & no oxidizer)	
Water Solubility/Reactivity Test		Type Rhodinine Ferrous Citrate	
(Add sample to water)		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Temperature Change <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Type Rhodinine Ferrous Citrate	
Effervescence or gasses <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Solubility in Water <input type="checkbox"/> N/A		Flammability/Fume Test	
<input type="checkbox"/> Dissolves (soluble/miscible)		CGI Reading _____ <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Does not dissolve (insoluble)		<input type="checkbox"/> Flammable: Ignites easily	
<input type="checkbox"/> 2 or more phases (immiscible)		<input checked="" type="checkbox"/> Combustible: Sample ignites	
<input type="checkbox"/> Miscible (emulsion like)		<input checked="" type="checkbox"/> Non-Flammable: Does not ignite	
<input type="checkbox"/> Slightly soluble		Chlorinated Test (Copper Wire)	
Specific Gravity:		<input checked="" type="checkbox"/> Green Flame (positive chlorinated)	
<input checked="" type="checkbox"/> Floats (<1) <input type="checkbox"/> Sinks (>1) <input type="checkbox"/> N/A		Other: _____ <input type="checkbox"/> N/A	
Corrosivity Test (pH paper)		Other Tests:	
pH: <u>5.5</u> <input type="checkbox"/> N/A		Sugar Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH<2 Corrosive Acid <input type="checkbox"/> pH<7 Acidic		Starch Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH>12.5 Corrosive Base <input type="checkbox"/> pH>7 Base/Alkaline		Protein Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Liquid pH _____ <input type="checkbox"/> Paste pH _____			

Notes: \_\_\_\_\_

## Basic Chemical Hazardous Classification Data Sheet

Project Name: Tafoane Industries RS Date: 10/3Project No: \_\_\_\_\_ Sample ID No: TI-06Notes: \_\_\_\_\_ Analyst: MC

Sample Matrix: <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid		Oxidizer Test (Water soluble only)	
Viscosity: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Coats <input type="checkbox"/> Thick <input type="checkbox"/> N/A Like Surface Syrup		<input type="checkbox"/> Color Change (Oxidizer) <u>2</u> <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No oxidizer)	
Color: <u>Brn + Greenish</u> <input type="checkbox"/> N/A		Sulfide Test (pH: 7 & no oxidizer)	
No. of Phases: <u>2</u> <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> N/A		<input type="checkbox"/> Color Change (Sulfide present) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No sulfides)	
Reported Odor: <u>Metallic</u> <input type="checkbox"/> N/A		Cyanide Test (pH: 7 & no oxidizer)	
Water Solubility/Reactivity Test		Type Rhodinine Ferrous Citrate	
(Add sample to water)		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Temperature Change <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (2		Type Rhodinine Ferrous Citrate	
Effervescence or gasses <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (2		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Solubility in Water <input type="checkbox"/> N/A		Flammability Flame Test	
<input type="checkbox"/> Dissolves (soluble/miscible) 2		CGI Reading _____ <input type="checkbox"/> N/A	
<input type="checkbox"/> Does not dissolve (insoluble) 1		<input type="checkbox"/> Flammable: Ignites easily	
<input type="checkbox"/> 2 or more phases (immiscible)		<input type="checkbox"/> Combustible: Sample ignites	
<input type="checkbox"/> Miscible (emulsion like)		<input type="checkbox"/> Non-Flammable: Does not ignite 2	
<input type="checkbox"/> Slightly soluble		Chlorinated Test (Copper Wire)	
Specific Gravity:		<input type="checkbox"/> Green Flame (positive chlorinated)	
<input type="checkbox"/> Floats (<1) <input type="checkbox"/> Sinks (>1) <input type="checkbox"/> N/A		Other: <u>None 1 2</u> <input type="checkbox"/> N/A	
Corrosivity Test (pH paper)		Other Tests:	
pH: <u>6.5 + 6</u> <input type="checkbox"/> N/A		Sugar Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH < 2 Corrosive Acid <input type="checkbox"/> pH < 7 Acidic		Starch Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH > 12.5 Corrosive Base <input type="checkbox"/> pH > 7 Base/Alkaline		Protein Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Liquid pH _____ <input type="checkbox"/> Paste pH _____			

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Basic Chemical Hazardous Classification Data Sheet

Project Name: Tatooine Industries KS Date: 10/3Project No: \_\_\_\_\_ Sample ID No: TI-07Notes: \_\_\_\_\_ Analyst: JR

Sample Matrix: <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid		Oxidizer Test (Water soluble only)	
Viscosity: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Coats <input type="checkbox"/> Thick <input type="checkbox"/> N/A Like Surface Syrup		<input type="checkbox"/> Color Change (Oxidizer) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No oxidizer) <u>2</u>	
Color: <u>clear &amp; orange</u> <input type="checkbox"/> N/A		Sulfide Test (pH > 7 & no oxidizer)	
No. of Phases: <u>2</u> <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> N/A		<input type="checkbox"/> Color Change (Sulfide present) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No sulfides)	
Reported Odor: <u>oil</u> <input type="checkbox"/> N/A		Cyanide Test (pH > 7 & no oxidizer)	
Water Solubility/Reactivity Test		Type Rhodinine Ferrous Citrate	
(Add sample to water)		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Temperature Change <input type="checkbox"/> Yes <input type="checkbox"/> No		Type Rhodinine Ferrous Citrate	
Effervescence or gasses <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Solubility in Water <input type="checkbox"/> N/A		Flammability/Flame Test	
<input type="checkbox"/> Dissolves (soluble/miscible) <u>2</u>		CGI Reading _____ <input type="checkbox"/> N/A	
<input type="checkbox"/> Does not dissolve (insoluble)		<input type="checkbox"/> Flammable: Ignites easily	
<input type="checkbox"/> 2 or more phases (immiscible)		<input type="checkbox"/> Combustible: Sample ignites	
<input type="checkbox"/> Miscible (emulsion like)		<input checked="" type="checkbox"/> Non-Flammable: Does not ignite <u>2</u>	
<input type="checkbox"/> Slightly soluble		Chlorinated Test (Copper Wire)	
Specific Gravity:		<input type="checkbox"/> Green Flame (positive chlorinated)	
<input type="checkbox"/> Floats (<1) <input type="checkbox"/> Sinks (>1) <input type="checkbox"/> N/A		Other: <u>None</u> <input type="checkbox"/> N/A	
Corrosivity Test (pH paper)		Other Tests:	
pH: <u>4 + 4</u> <input type="checkbox"/> N/A		Sugar Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH < 2 Corrosive Acid <input type="checkbox"/> pH < 7 Acidic		Starch Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH > 12.5 Corrosive Base <input type="checkbox"/> pH > 7 Base/Alkaline		Protein Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Liquid pH _____ <input type="checkbox"/> Paste pH _____			

Notes: \_\_\_\_\_

## Basic Chemical Hazardous Classification Data Sheet

Project Name: Tatooine Industries RS Date: 10/2Project No: \_\_\_\_\_ Sample ID No: TL-08Notes: \_\_\_\_\_ Analyst: JR

Sample Matrix: <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid		Oxidizer Test (Water soluble only)	
Viscosity: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Coats <input type="checkbox"/> Thick <input type="checkbox"/> N/A Like Surface Syrup		<input type="checkbox"/> Color Change (Oxidizer) <input type="checkbox"/> N/A <input checked="" type="checkbox"/> No Color Change (No oxidizer)	
Color: <u>cloudy light yellow/green</u> <input type="checkbox"/> N/A		Sulfide Test (pH>7 & no oxidizer)	
No. of Phases: <u>1</u> <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> N/A		<input type="checkbox"/> Color Change (Sulfide present) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No sulfides)	
Reported Odor: <input type="checkbox"/> N/A		Cyanide Test (pH>7 & no oxidizer)	
Water Solubility/Reactivity Test		Type Rhodinine Ferrous Citrate	
(Add sample to water)		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Temperature Change <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Type Rhodinine Ferrous Citrate	
Effervescence or gasses <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Solubility in Water <input type="checkbox"/> N/A		Flammability/Flame Test	
<input checked="" type="checkbox"/> Dissolves (soluble/miscible)		CGI Reading _____ <input type="checkbox"/> N/A	
<input type="checkbox"/> Does not dissolve (insoluble)		<input type="checkbox"/> Flammable: Ignites easily	
<input type="checkbox"/> 2 or more phases (immiscible)		<input checked="" type="checkbox"/> Combustible: Sample ignites	
<input type="checkbox"/> Miscible (emulsion like)		<input type="checkbox"/> Non-Flammable: Does not ignite	
<input type="checkbox"/> Slightly soluble		Chlorinated Test (Copper Wire)	
Specific Gravity:		<input type="checkbox"/> Green Flame (positive chlorinated)	
<input type="checkbox"/> Floats (<1) <input type="checkbox"/> Sinks (>1) <input type="checkbox"/> N/A		Other: <u>No</u> <input type="checkbox"/> N/A	
Corrosivity Test (pH paper)		Other Tests:	
pH: <u>5</u> <input type="checkbox"/> N/A		Sugar Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH<2 Corrosive Acid <input type="checkbox"/> pH<7 Acidic		Starch Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH>12.5 Corrosive Base <input type="checkbox"/> pH>7 Base/Alkaline		Protein Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Liquid pH _____ <input type="checkbox"/> Paste pH _____			

Notes: \_\_\_\_\_

## Basic Chemical Hazardous Classification Data Sheet

Project Name: Taloxine Industries RS Date: 10/3Project No: \_\_\_\_\_ Sample ID No: TI-09Notes: \_\_\_\_\_ Analyst: MC

Sample Matrix: <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid		Oxidizer Test (Water soluble only)	
Viscosity: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Coats <input type="checkbox"/> Thick <input type="checkbox"/> N/A Like Surface Syrup		<input type="checkbox"/> Color Change (Oxidizer) <input type="checkbox"/> N/A <input checked="" type="checkbox"/> No Color Change (No oxidizer)	
Color: <u>cloudy light yellow/green</u> <input type="checkbox"/> N/A		Sulfide Test (pH: 7 & no oxidizer)	
No. of Phases: <u>1</u> <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> N/A		<input type="checkbox"/> Color Change (Sulfide present) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No sulfides)	
Reported Odor: <input type="checkbox"/> N/A		Cyanide Test (pH: 7 & no oxidizer)	
Water Solubility/Reactivity Test		Type Rhodinine Ferrous Citrate	
(Add sample to water)		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Temperature Change <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Type Rhodinine Ferrous Citrate	
Effervescence or gasses <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Solubility in Water <input type="checkbox"/> N/A		Flammability/Flame Test	
<input checked="" type="checkbox"/> Dissolves (soluble/miscible)		CGI Reading _____ <input type="checkbox"/> N/A	
<input type="checkbox"/> Does not dissolve (insoluble)		<input type="checkbox"/> Flammable: Ignites easily	
<input type="checkbox"/> 2 or more phases (immiscible)		<input type="checkbox"/> Combustible: Sample ignites	
<input type="checkbox"/> Miscible (emulsion like)		<input checked="" type="checkbox"/> Non-Flammable: Does not ignite	
<input type="checkbox"/> Slightly soluble		Chlorinated Test (Copper Wire)	
Specific Gravity:		<input type="checkbox"/> Green Flame (positive chlorinated)	
<input type="checkbox"/> Floats (<1) <input type="checkbox"/> Sinks (>1) <input type="checkbox"/> N/A		Other: <u>No</u> <input checked="" type="checkbox"/> N/A	
Corrosivity Test (pH paper)		Other Tests:	
pH: <u>5</u> <input type="checkbox"/> N/A		Sugar Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH < 2 Corrosive Acid <input checked="" type="checkbox"/> pH < 7 Acidic		Starch Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH > 12.5 Corrosive Base <input type="checkbox"/> pH > 7 Base/Alkaline		Protein Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Liquid pH _____ <input type="checkbox"/> Paste pH _____			

Notes: \_\_\_\_\_  
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## Basic Chemical Hazardous Classification Data Sheet

Project Name: Tatooine Industries KS Date: 10/3Project No: \_\_\_\_\_ Sample ID No: TI-11Notes: \_\_\_\_\_ Analyst: MC

Sample Matrix: <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid		Oxidizer Test (Water soluble only)	
Viscosity: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Coats <input type="checkbox"/> Thick <input type="checkbox"/> N/A Like Surface Syrup		<input type="checkbox"/> Color Change (Oxidizer) <input checked="" type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No oxidizer)	
Color: <u>Clear</u> <input type="checkbox"/> N/A		Sulfide Test (pH>7 & no oxidizer)	
No. of Phases: <u>1</u> <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> N/A		<input type="checkbox"/> Color Change (Sulfide present) <input checked="" type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No sulfides)	
Reported Odor: <input type="checkbox"/> N/A		Cyanide Test (pH>7 & no oxidizer)	
Water Solubility/Reactivity Test		Type Rhodinine Ferrous Citrate	
(Add sample to water)		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input checked="" type="checkbox"/> N/A	
Temperature Change <input type="checkbox"/> Yes <input type="checkbox"/> No		Type Rhodinine Ferrous Citrate	
Effervescence or gasses <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input checked="" type="checkbox"/> N/A	
Solubility in Water <input type="checkbox"/> N/A		Flammability/Flame Test	
<input type="checkbox"/> Dissolves (soluble/miscible)		CGI Reading _____ <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Does not dissolve (insoluble)		<input checked="" type="checkbox"/> Flammable: Ignites easily	
<input type="checkbox"/> 2 or more phases (immiscible)		<input type="checkbox"/> Combustible: Sample ignites	
<input type="checkbox"/> Miscible (emulsion like)		<input type="checkbox"/> Non-Flammable: Does not ignite	
<input type="checkbox"/> Slightly soluble		Chlorinated Test (Copper Wire)	
Specific Gravity:		<input type="checkbox"/> Green Flame (positive chlorinated)	
<input checked="" type="checkbox"/> Floats (<1) <input type="checkbox"/> Sinks (>1) <input type="checkbox"/> N/A		Other: <u>NO</u> <input type="checkbox"/> N/A	
Corrosivity Test (pH paper)		Other Tests:	
pH: <u>4</u> <input type="checkbox"/> N/A		Sugar Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH<2 Corrosive Acid <input checked="" type="checkbox"/> pH<7 Acidic		Starch Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH>12.5 Corrosive Base <input type="checkbox"/> pH>7 Base/Alkaline		Protein Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Liquid pH _____ <input type="checkbox"/> Paste pH _____			

Notes: In Lacquer thinner bottle

## Basic Chemical Hazardous Classification Data Sheet

Project Name: Tatopine Industries RS Date: 10/3Project No: \_\_\_\_\_ Sample ID No: TI-12Notes: \_\_\_\_\_ Analyst: JR

Sample Matrix: <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Liquid		Oxidizer Test (Water soluble only)	
Viscosity: <input type="checkbox"/> Water <input type="checkbox"/> Coats <input type="checkbox"/> Thick <input checked="" type="checkbox"/> N/A Like Surface Syrup		<input type="checkbox"/> Color Change (Oxidizer) <input type="checkbox"/> N/A <input checked="" type="checkbox"/> No Color Change (No oxidizer)	
Color: <u>white</u> <input type="checkbox"/> N/A		Sulfide Test (pH>7 & no oxidizer)	
No. of Phases: <u>1</u> <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/> N/A		<input type="checkbox"/> Color Change (Sulfide present) <input type="checkbox"/> N/A <input checked="" type="checkbox"/> No Color Change (No sulfides)	
Reported Odor: <input type="checkbox"/> N/A		Cyanide Test (pH>7 & no oxidizer)	
Water Solubility/Reactivity Test		Type Rhodinine <u>Ferrous Citrate</u>	
(Add sample to water)		<input type="checkbox"/> Positive CN <input checked="" type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Temperature Change <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Type Rhodinine Ferrous Citrate	
Effervescence or gasses <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A	
Solubility in Water <input type="checkbox"/> N/A		Flammability/Flame Test	
<input checked="" type="checkbox"/> Dissolves (soluble/miscible)		CGI Reading _____ <input type="checkbox"/> N/A	
<input type="checkbox"/> Does not dissolve (insoluble)		<input type="checkbox"/> Flammable: Ignites easily	
<input type="checkbox"/> 2 or more phases (immiscible)		<input type="checkbox"/> Combustible: Sample ignites	
<input type="checkbox"/> Miscible (emulsion like)		<input checked="" type="checkbox"/> Non-Flammable: Does not ignite	
<input type="checkbox"/> Slightly soluble		Chlorinated Test (Copper Wire)	
Specific Gravity:		<input type="checkbox"/> Green Flame (positive chlorinated)	
<input type="checkbox"/> Floats (<1) <input type="checkbox"/> Sinks (>1) <input type="checkbox"/> N/A		Other: <u>None</u> <input type="checkbox"/> N/A	
Corrosivity Test (pH paper)		Other Tests:	
pH: <u>14</u> <input type="checkbox"/> N/A		Sugar Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> pH<2 Corrosive Acid <input type="checkbox"/> pH<7 Acidic		Starch Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> pH>12.5 Corrosive Base <input type="checkbox"/> pH>7 Base/Alkaline		Protein Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Liquid pH _____ <input type="checkbox"/> Paste pH _____			

Notes: \_\_\_\_\_

## Basic Chemical Hazardous Classification Data Sheet

Project Name: Tatooine Industries RS Date: 10/3Project No: \_\_\_\_\_ Sample ID No: TI-13Notes: \_\_\_\_\_ Analyst: JR

Sample Matrix: <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid	Oxidizer Test (Water soluble only)
Viscosity: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Coats <input type="checkbox"/> Thick <input type="checkbox"/> N/A Like Surface Syrup	<input type="checkbox"/> Color Change (Oxidizer) <input checked="" type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No oxidizer)
Color: <u>Brown</u> <input type="checkbox"/> N/A	Sulfide Test (pH: 7 & no oxidizer)
No. of Phases: <u>1</u> <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> N/A	<input type="checkbox"/> Color Change (Sulfide present) <input checked="" type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No sulfides)
Reported Odor: <input type="checkbox"/> N/A	Cyanide Test (pH: 7 & no oxidizer)
Water Solubility/Reactivity Test	Type Rhodinine Ferrous Citrate
(Add sample to water)	<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input checked="" type="checkbox"/> N/A
Temperature Change <input type="checkbox"/> Yes <input type="checkbox"/> No	Type Rhodinine Ferrous Citrate
Effervescence or gasses <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input checked="" type="checkbox"/> N/A
Solubility in Water <input type="checkbox"/> N/A	Flammability/Flame Test
<input type="checkbox"/> Dissolves (soluble/miscible)	CGI Reading _____ <input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Does not dissolve (insoluble)	<input type="checkbox"/> Flammable: Ignites easily
<input type="checkbox"/> 2 or more phases (immiscible)	<input checked="" type="checkbox"/> Combustible: Sample ignites
<input type="checkbox"/> Miscible (emulsion like)	<input type="checkbox"/> Non-Flammable: Does not ignite
<input type="checkbox"/> Slightly soluble	Chlorinated Test (Copper Wire)
Specific Gravity:	<input type="checkbox"/> Green Flame (positive chlorinated)
<input type="checkbox"/> Floats (<1) <input type="checkbox"/> Sinks (>1) <input type="checkbox"/> N/A	Other: <u>NO</u> <input type="checkbox"/> N/A
Corrosivity Test (pH paper)	Other Tests:
pH: <u>4.5</u> <input type="checkbox"/> N/A	Sugar Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> pH < 2 Corrosive Acid <input checked="" type="checkbox"/> pH < 7 Acidic	Starch Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> pH > 12.5 Corrosive Base <input type="checkbox"/> pH > 7 Base/Alkaline	Protein Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Liquid pH _____ <input type="checkbox"/> Paste pH _____	

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Basic Chemical Hazardous Classification Data Sheet

Project Name: Tatavine Industries RS Date: 10/3Project No: \_\_\_\_\_ Sample ID No: TL-14Notes: \_\_\_\_\_ Analyst: MC

Sample Matrix: <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Liquid		Oxidizer Test (Water soluble only)
Viscosity: <input type="checkbox"/> Water <input type="checkbox"/> Coats <input type="checkbox"/> Thick <input type="checkbox"/> N/A Like Surface Syrup		<input checked="" type="checkbox"/> Color Change (Oxidizer)   <u>2</u> <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No oxidizer)
Color: <u>Black &amp; Orange</u> <input type="checkbox"/> N/A		Sulfide Test (pH>7 & no oxidizer)
No. of Phases: <u>2</u> <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/> N/A		<input type="checkbox"/> Color Change (Sulfide present) <input type="checkbox"/> N/A <input type="checkbox"/> No Color Change (No sulfides)
Reported Odor: <input type="checkbox"/> N/A		Cyanide Test (pH>7 & no oxidizer)
Water Solubility/Reactivity Test		Type Rhodinine Ferrous Citrate
(Add sample to water)		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A
Temperature Change <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Type Rhodinine Ferrous Citrate
Effervescence or gasses <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Positive CN <input type="checkbox"/> Negative CN <input type="checkbox"/> N/A
Solubility in Water <input type="checkbox"/> N/A		Flammability/Flame Test
<input type="checkbox"/> Dissolves (soluble/miscible) <u>1</u> <u>2</u>		CGI Reading _____ <input type="checkbox"/> N/A
<input type="checkbox"/> Does not dissolve (insoluble)		<input type="checkbox"/> Flammable: Ignites easily
<input type="checkbox"/> 2 or more phases (immiscible)		<input type="checkbox"/> Combustible: Sample ignites
<input type="checkbox"/> Miscible (emulsion like)		<input checked="" type="checkbox"/> Non-Flammable: Does not ignite
<input type="checkbox"/> Slightly soluble		Chlorinated Test (Copper Wire)
Specific Gravity:		<input checked="" type="checkbox"/> Green Flame (positive chlorinated)   <u>2</u>
<input type="checkbox"/> Floats (<1) <input type="checkbox"/> Sinks (>1) <input type="checkbox"/> N/A		Other: _____ <input type="checkbox"/> N/A
Corrosivity Test (pH paper)		Other Tests:
pH: <u>4 &amp; 4</u> <input type="checkbox"/> N/A		Sugar Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> pH<2 Corrosive Acid <input type="checkbox"/> pH<7 Acidic		Starch Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> pH>12.5 Corrosive Base <input type="checkbox"/> pH>7 Base/Alkaline		Protein Test: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Liquid pH _____ <input type="checkbox"/> Paste pH _____		

Notes: Ferric Chloride label on container

**Attachment C**  
**Photographic Log**

## Tatooine Industries International

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Photo Category: 10/03/16

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Description: START HazCating unknown samples.

Category: 10/03/16

Latitude: 41.1508611111111

Date Taken: 10/3/2016

Longitude: -104.516152777778

Tags:



Description: Trailer #9 of 9. Trailers were approximately 80% full.

Category: 10/03/16

Latitude: 41.1585527777778

Date Taken: 10/3/2016

Longitude: -104.447455555556

Tags:



Description: Trailer #7 of 9. Trailers were approximately 80% full.

Category: 10/03/16

Latitude: 41.1585583333333

Date Taken: 10/3/2016

Longitude: -104.447547222222

Tags:



Description: Trailer #6 of 9. Trailers were approximately 80% full.

Category: 10/03/16

Latitude: 41.1584472222222

Date Taken: 10/3/2016

Longitude: -104.448447222222

Tags:



Description: Trailer #2 of 9. Trailers were approximately 80% full.

Category: 10/03/16

Latitude: 41.1579944444444

Date Taken: 10/3/2016

Longitude: -104.447808333333

Tags:



## Tatooine Industries International

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Photo Category: 10/03/16

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Description: Trailer #1 of 9. Trailers were approximately 80% full.

Category: 10/03/16

Latitude: 41.1577638888889

Date Taken: 10/3/2016

Longitude: -104.447569444444

Tags:



Description: West side of the secondary warehouse. Warehouse contained approximately 57,000 cubic feet of CRT screens.

Category: 10/03/16

Latitude: 41.1577444444444

Date Taken: 10/3/2016

Longitude: -104.447555555556

Tags:



Description: West side of the secondary warehouse. Warehouse contained approximately 57,000 cubic feet of CRT screens.

Category: 10/03/16

Latitude: 41.1577444444444

Date Taken: 10/3/2016

Longitude: -104.447555555556

Tags:



Description: West door of the secondary warehouse.

Category: 10/03/16

Latitude: 41.1504333333333

Date Taken: 10/3/2016

Longitude: -104.519883333333

Tags:



## Tatooine Industries International

---

Photo Category: 10/03/16

---

Description: START sampling drums of unknown materials.

Category: 10/03/16

Latitude: 41.1581083333333

Date Taken: 10/3/2016

Longitude: -104.446822222222

Tags:



**Attachment D**  
**Laboratory Results**



**ACCUTEST**  
**Mountain States**

10/14/16

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VERIFICATION, TESTING AND CERTIFICATION COMPANY.



***e-Hardcopy 2.0***  
***Automated Report***

**Technical Report for**

**Weston Solutions, Inc.**

**Tatooine Industries Rs**

**SGS Accutest Job Number: D87423**

**Sampling Date: 10/04/16**

**Report to:**

**Weston Solutions, Inc.  
1435 Garrison Street Suite 100  
Lakewood, CO 80215  
Eric.Sandusky@westonsolutions.com**

**ATTN: Eric Sandusky**

**Total number of pages in report: 35**



Test results contained within this data package meet the requirements  
of the National Environmental Laboratory Accreditation Program  
and/or state specific certification programs as applicable.

**Scott Heideman**  
**Laboratory Director**

**Client Service contact: Renea Lewis 303-425-6021**

Certifications: CO (CO00049), ID (CO00049), NE (NE-OS-06-04), ND (R-027), NJ (CO007), OK (D9942)  
UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.  
Test results relate only to samples analyzed.



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**Sample Summary**

Weston Solutions, Inc.

**Job No:** D87423

Tatooine Industries Rs

<b>Sample Number</b>	<b>Collected Date</b>	<b>Time By</b>	<b>Received</b>	<b>Matrix Code Type</b>	<b>Client Sample ID</b>
D87423-1	10/04/16	13:50	10/04/16	SO Solid	TI-GL-01-20161003
D87423-2	10/04/16	13:53	10/04/16	SO Solid	TI-GL-02-20161003
D87423-3	10/04/16	15:10	10/04/16	AQ Water	TI-08-20161003

---

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## CASE NARRATIVE / CONFORMANCE SUMMARY

2

**Client:** Weston Solutions, Inc.

**Job No** D87423

**Site:** Tatoonie Industries Rs

**Report Date** 10/14/2016 11:46:47 A

On 10/04/2016, 3 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 23.3 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D87423 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ

**Batch ID:** V7V2110

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D87360-14MS, D87360-14MSD were used as the QC samples indicated.
- D87423-3: The pH of the sample aliquot for VOA analysis was >2 at time of analysis. Dilution required due to matrix interference (sample was viscous and foamed).

### Metals By Method SW846 6010C

**Matrix:** LEACHATE

**Batch ID:** MP19992

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D87626-1AMS, D87626-1AMSD, D87626-1ASDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Lead are outside control limits for sample MP19992-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Friday, October 14, 2016

Page 1 of 1

**SGS**

4 of 35  
**ACCUTEST**  
D87423

## Summary of Hits

Page 1 of 1

**Job Number:** D87423  
**Account:** Weston Solutions, Inc.  
**Project:** Tatooine Industries Rs  
**Collected:** 10/04/16

3

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D87423-1	TI-GL-01-20161003					
Lead		145	1.0		mg/l	SW846 6010C
D87423-2	TI-GL-02-20161003					
Lead		249	1.0		mg/l	SW846 6010C
D87423-3	TI-08-20161003					
Tetrachloroethylene <sup>a</sup>		1360	100	50	ug/l	SW846 8260B
Toluene <sup>a</sup>		60.8 J	100	50	ug/l	SW846 8260B
1,2,4-Trimethylbenzene <sup>a</sup>		116	100	50	ug/l	SW846 8260B
Xylene (total) <sup>a</sup>		343	100	100	ug/l	SW846 8260B

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis. Dilution required due to matrix interference (sample was viscous and foamed).

**SGS**

**ACCUTEST**  
**Mountain States**

**Section 4**

4

Sample Results

Report of Analysis

**SGS**

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**ACCUTEST**  
D87423

## Report of Analysis

Page 1 of 1

**Client Sample ID:** TI-GL-01-20161003**Lab Sample ID:** D87423-1**Matrix:** SO - Solid**Project:** Tatooine Industries Rs**Date Sampled:** 10/04/16**Date Received:** 10/04/16**Percent Solids:** n/a**Metals Analysis, TCLP Leachate SW846 1311**

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	145	D008	5.0	1.0	mg/l	20	10/11/16	10/13/16 JM	SW846 6010C <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA7818

(2) Prep QC Batch: MP19992

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261 6/96)

## Report of Analysis

Page 1 of 1

Client Sample ID: TI-GL-02-20161003

Lab Sample ID: D87423-2

Matrix: SO - Solid

Project: Tatooine Industries Rs

Date Sampled: 10/04/16

Date Received: 10/04/16

Percent Solids: n/a

## Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	249	D008	5.0	1.0	mg/l	20	10/11/16	10/13/16 JM	SW846 6010C <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA7818

(2) Prep QC Batch: MP19992

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261.6/96)

## Report of Analysis

**Client Sample ID:** TI-08-20161003  
**Lab Sample ID:** D87423-3  
**Matrix:** AQ - Water  
**Method:** SW846 8260B  
**Project:** Tatooine Industries Rs

**Date Sampled:** 10/04/16  
**Date Received:** 10/04/16  
**Percent Solids:** n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	7V37935.D	100	10/07/16	TL	n/a	n/a	V7V2110
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2500	2000	ug/l	
107-02-8	Acrolein	ND	1000	700	ug/l	
107-13-1	Acrylonitrile	ND	500	400	ug/l	
71-43-2	Benzene	ND	100	50	ug/l	
108-86-1	Bromobenzene	ND	100	50	ug/l	
74-97-5	Bromochloromethane	ND	200	100	ug/l	
75-27-4	Bromodichloromethane	ND	200	55	ug/l	
75-25-2	Bromoform	ND	400	150	ug/l	
104-51-8	n-Butylbenzene	ND	100	60	ug/l	
135-98-8	sec-Butylbenzene	ND	100	60	ug/l	
98-06-6	tert-Butylbenzene	ND	100	60	ug/l	
75-15-0	Carbon disulfide	ND	400	200	ug/l	
56-23-5	Carbon tetrachloride	ND	200	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
75-00-3	Chloroethane	ND	400	200	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	200	100	ug/l	
67-66-3	Chloroform	ND	200	100	ug/l	
95-49-8	o-Chlorotoluene	ND	100	50	ug/l	
106-43-4	p-Chlorotoluene	ND	100	50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1000	500	ug/l	
124-48-1	Dibromochloromethane	ND	200	50	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	50	ug/l	
95-50-1	o-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	m-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	p-Dichlorobenzene	ND	200	100	ug/l	
75-71-8	Dichlorodifluoromethane	ND	400	300	ug/l	
75-34-3	1,1-Dichloroethane	ND	200	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	100	ug/l	
75-35-4	1,1-Dichloroethylene	ND	200	100	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	200	100	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	200	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	200	100	ug/l	

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

**Client Sample ID:** TI-08-20161003  
**Lab Sample ID:** D87423-3  
**Matrix:** AQ - Water  
**Method:** SW846 8260B  
**Project:** Tatooine Industries Rs

**Date Sampled:** 10/04/16  
**Date Received:** 10/04/16  
**Percent Solids:** n/a

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	200	100	ug/l	
594-20-7	2,2-Dichloropropane	ND	400	200	ug/l	
563-58-6	1,1-Dichloropropene	ND	200	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	200	100	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	200	100	ug/l	
100-41-4	Ethylbenzene	ND	100	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	400	200	ug/l	
591-78-6	2-Hexanone	ND	1000	280	ug/l	
98-82-8	Isopropylbenzene	ND	100	50	ug/l	
99-87-6	p-Isopropyltoluene	ND	100	50	ug/l	
74-83-9	Methyl bromide	ND	400	200	ug/l	
74-87-3	Methyl chloride	ND	200	100	ug/l	
74-95-3	Methylene bromide	ND	200	100	ug/l	
75-09-2	Methylene chloride	ND	400	200	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	500	250	ug/l	
78-93-3	Methyl ethyl ketone	ND	1000	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	70	ug/l	
91-20-3	Naphthalene	ND	400	200	ug/l	
103-65-1	n-Propylbenzene	ND	100	50	ug/l	
100-42-5	Styrene	ND	100	50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	50	ug/l	
127-18-4	Tetrachloroethylene	1360	100	50	ug/l	
108-88-3	Toluene	60.8	100	50	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	200	100	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	200	100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	200	100	ug/l	
79-01-6	Trichloroethylene	ND	100	50	ug/l	
75-69-4	Trichlorofluoromethane	ND	400	200	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	200	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	116	100	50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	100	60	ug/l	
108-05-4	Vinyl Acetate	ND	1000	500	ug/l	
75-01-4	Vinyl chloride	ND	200	100	ug/l	
1330-20-7	Xylene (total)	343	100	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%

ND = Not detected    MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TI-08-20161003	
<b>Lab Sample ID:</b> D87423-3	<b>Date Sampled:</b> 10/04/16
<b>Matrix:</b> AQ - Water	<b>Date Received:</b> 10/04/16
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> n/a
<b>Project:</b> Tatooine Industries Rs	

## VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		62-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	101%		69-130%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis. Dilution required due to matrix interference (sample was viscous and foamed).

ND = Not detected      MDL = Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

---

**Misc. Forms**

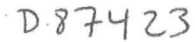
---

**5****Custody Documents and Other Forms**

---

**Includes the following where applicable:**

- Chain of Custody



## SGS Accutest Sample Receipt Summary

Job Number: D87423

Client: WESTON

Project: TATOOINE

Date / Time Received: 10/4/2016 4:00:00 PM

Delivery Method:

Airbill #s: HD

Cooler Temps (Initial/Adjusted): #1: (23.3/23.3)

### Cooler Security

Y or N

1. Custody Seals Present:

☒ ☐

3. COC Present:

☒ ☐

2. Custody Seals Intact:

☒ ☐

4. Smpl Dates/Time OK

☒ ☐

### Cooler Temperature

Y or N

1. Temp criteria achieved:

☒ ☐

2. Cooler temp verification:

Bar Therm:

3. Cooler media:

Ice (Bag)

4. No. Coolers:

1

### Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler:

☐ ☒ ☐

2. Trip Blank listed on COC:

☐ ☒ ☐

3. Samples preserved properly:

☒ ☐ ☐

4. VOCs headspace free:

☒ ☐ ☐

Comments

### Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles:

☒ ☐

2. Container labeling complete:

☒ ☐

3. Sample container label / COC agree:

☒ ☐

### Sample Integrity - Condition

Y or N

1. Sample recvd within HT:

☒ ☐

2. All containers accounted for:

☒ ☐

3. Condition of sample:

Intact

### Sample Integrity - Instructions

Y or N

N/A

1. Analysis requested is clear:

☒ ☐

2. Bottles received for unspecified tests:

☐ ☒

3. Sufficient volume recvd for analysis:

☒ ☐

4. Compositing instructions clear:

☐ ☐ ☒

5. Filtering instructions clear:

☐ ☐ ☒

5.1  
5

D87423: Chain of Custody

Page 2 of 2

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**GC/MS Volatiles**

---

**9****QC Data Summaries**

---

**Includes the following where applicable:**

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

## Method Blank Summary

Page 1 of 3

Job Number: D87423

Account: WESTCOL Weston Solutions, Inc.

Project: Tatooine Industries Rs

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V2110-MB	7V37913.D	1	10/07/16	TL	n/a	n/a	V7V2110

The QC reported here applies to the following samples:

Method: SW846 8260B

D87423-3

CAS.No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	20	ug/l	
107-02-8	Acrolein	ND	10	7.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	2.0	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.55	ug/l	
75-25-2	Bromoform	ND	4.0	1.5	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.60	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.60	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.60	ug/l	
75-15-0	Carbon disulfide	ND	4.0	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	4.0	2.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4.0	3.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	4.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	1.0	ug/l	

## Method Blank Summary

Page 2 of 3

Job Number: D87423

Account: WESTCOL Weston Solutions, Inc.

Project: Tatooine Industries Rs

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V2110-MB	7V37913.D	1	10/07/16	TL	n/a	n/a	V7V2110

The QC reported here applies to the following samples:

Method: SW846 8260B

D87423-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.0	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	2.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	4.0	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.70	ug/l	
91-20-3	Naphthalene	ND	4.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	4.0	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.60	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	1.0	ug/l	

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## Method Blank Summary

Page 3 of 3

Job Number: D87423

Account: WESTCOL Weston Solutions, Inc.

Project: Tatooine Industries Rs

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V2110-MB	7V37913.D	1	10/07/16	TL	n/a	n/a	V7V2110

The QC reported here applies to the following samples:

Method: SW846 8260B

D87423-3

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	93% 70-130%
17060-07-0	1,2-Dichloroethane-D4	102% 62-130%
2037-26-5	Toluene-D8	97% 70-130%
460-00-4	4-Bromofluorobenzene	99% 69-130%

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## Blank Spike Summary

Page 1 of 3

Job Number: D87423

Account: WESTCOL Weston Solutions, Inc.

Project: Tatooine Industries Rs

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V2110-BS	7V37911.D	1	10/06/16	TL	n/a	n/a	V7V2110

The QC reported here applies to the following samples:

Method: SW846 8260B

D87423-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	250	211	84	10-190
107-02-8	Acrolein	250	224	90	10-281
107-13-1	Acrylonitrile	125	118	94	58-136
71-43-2	Benzene	50	47.6	95	70-130
108-86-1	Bromobenzene	50	46.8	94	70-130
74-97-5	Bromochloromethane	50	50.1	100	70-130
75-27-4	Bromodichloromethane	50	49.3	99	70-130
75-25-2	Bromoform	50	51.1	102	70-130
104-51-8	n-Butylbenzene	50	47.8	96	69-130
135-98-8	sec-Butylbenzene	50	48.4	97	70-130
98-06-6	tert-Butylbenzene	50	48.1	96	70-130
75-15-0	Carbon disulfide	50	45.9	92	50-133
56-23-5	Carbon tetrachloride	50	48.8	98	70-130
108-90-7	Chlorobenzene	50	46.9	94	70-130
75-00-3	Chloroethane	50	50.0	100	58-130
110-75-8	2-Chloroethyl vinyl ether	50	47.5	95	31-130
67-66-3	Chloroform	50	48.9	98	70-130
95-49-8	o-Chlorotoluene	50	47.0	94	70-130
106-43-4	p-Chlorotoluene	50	46.6	93	70-130
96-12-8	1,2-Dibromo-3-chloropropane	50	48.4	97	65-130
124-48-1	Dibromochloromethane	50	50.6	101	70-130
106-93-4	1,2-Dibromoethane	50	48.4	97	70-130
95-50-1	o-Dichlorobenzene	50	46.2	92	70-130
541-73-1	m-Dichlorobenzene	50	47.1	94	70-130
106-46-7	p-Dichlorobenzene	50	46.3	93	70-130
75-71-8	Dichlorodifluoromethane	50	47.3	95	10-223
75-34-3	1,1-Dichloroethane	50	48.1	96	65-130
107-06-2	1,2-Dichloroethane	50	47.0	94	67-131
75-35-4	1,1-Dichloroethylene	50	46.9	94	68-130
156-59-2	cis-1,2-Dichloroethylene	50	49.2	98	70-130
156-60-5	trans-1,2-Dichloroethylene	50	47.6	95	69-130
78-87-5	1,2-Dichloropropane	50	47.5	95	70-130
142-28-9	1,3-Dichloropropane	50	46.0	92	70-130
594-20-7	2,2-Dichloropropane	50	45.2	90	32-148
563-58-6	1,1-Dichloropropene	50	48.0	96	70-130
10061-01-5	cis-1,3-Dichloropropene	50	48.3	97	70-130

\* = Outside of Control Limits.

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## Blank Spike Summary

Page 2 of 3

Job Number: D87423

Account: WESTCOL Weston Solutions, Inc.

Project: Tatooine Industries Rs

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V2110-BS	7V37911.D	1	10/06/16	TL	n/a	n/a	V7V2110

The QC reported here applies to the following samples:

Method: SW846 8260B

D87423-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	47.9	96	70-130
100-41-4	Ethylbenzene	50	47.9	96	70-130
87-68-3	Hexachlorobutadiene	50	48.3	97	51-134
591-78-6	2-Hexanone	250	222	89	47-140
98-82-8	Isopropylbenzene	50	48.8	98	70-130
99-87-6	p-Isopropyltoluene	50	49.2	98	70-130
74-83-9	Methyl bromide	50	47.9	96	31-149
74-87-3	Methyl chloride	50	47.0	94	35-155
74-95-3	Methylene bromide	50	47.9	96	70-130
75-09-2	Methylene chloride	50	47.3	95	67-130
108-10-1	4-Methyl-2-pentanone	250	228	91	70-130
78-93-3	Methyl ethyl ketone	250	224	90	38-152
1634-04-4	Methyl Tert Butyl Ether	50	48.8	98	70-130
91-20-3	Naphthalene	50	49.1	98	61-130
103-65-1	n-Propylbenzene	50	46.8	94	70-130
100-42-5	Styrene	50	49.0	98	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	50.5	101	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	48.1	96	70-130
127-18-4	Tetrachloroethylene	50	48.8	98	70-130
108-88-3	Toluene	50	45.7	91	70-130
87-61-6	1,2,3-Trichlorobenzene	50	49.1	98	55-130
120-82-1	1,2,4-Trichlorobenzene	50	46.5	93	65-130
71-55-6	1,1,1-Trichloroethane	50	48.9	98	70-130
79-00-5	1,1,2-Trichloroethane	50	47.1	94	70-130
79-01-6	Trichloroethylene	50	45.9	92	70-130
75-69-4	Trichlorofluoromethane	50	49.2	98	68-146
96-18-4	1,2,3-Trichloropropane	50	43.3	87	70-130
95-63-6	1,2,4-Trimethylbenzene	50	48.0	96	70-130
108-67-8	1,3,5-Trimethylbenzene	50	47.6	95	70-130
108-05-4	Vinyl Acetate	250	231	92	50-133
75-01-4	Vinyl chloride	50	51.6	103	48-141
1330-20-7	Xylene (total)	150	144	96	70-130

\* = Outside of Control Limits.

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## Blank Spike Summary

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Job Number: D87423

Account: WESTCOL Weston Solutions, Inc.

Project: Tatooine Industries Rs

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V2110-BS	7V37911.D	1	10/06/16	TL	n/a	n/a	V7V2110

The QC reported here applies to the following samples:

Method: SW846 8260B

D87423-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
17060-07-0	1,2-Dichloroethane-D4	102%	62-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	99%	69-130%

\* = Outside of Control Limits.

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# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: D87423

Account: WESTCOL Weston Solutions, Inc.

Project: Tatooine Industries Rs

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D87360-14MS	7V37921.D	1	10/07/16	TL	n/a	n/a	V7V2110
D87360-14MSD	7V37922.D	1	10/07/16	TL	n/a	n/a	V7V2110
D87360-14	7V37920.D	1	10/07/16	TL	n/a	n/a	V7V2110

The QC reported here applies to the following samples:

Method: SW846 8260B

D87423-3

CAS No.	Compound	D87360-14 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	250	196	78	250	206	82	5	10-190/30
107-02-8	Acrolein	ND	250	201	80	250	206	82	2	10-281/30
107-13-1	Acrylonitrile	ND	125	111	89	125	116	93	4	47-151/30
71-43-2	Benzene	ND	50	46.6	93	50	48.8	98	5	62-130/30
108-86-1	Bromobenzene	ND	50	46.9	94	50	48.5	97	3	70-130/30
74-97-5	Bromochloromethane	ND	50	46.1	92	50	49.4	99	7	70-130/30
75-27-4	Bromodichloromethane	ND	50	48.5	97	50	51.7	103	6	70-130/30
75-25-2	Bromoform	ND	50	51.1	102	50	53.4	107	4	70-130/30
104-51-8	n-Butylbenzene	ND	50	46.5	93	50	48.7	97	5	51-143/30
135-98-8	sec-Butylbenzene	ND	50	47.3	95	50	49.3	99	4	69-130/30
98-06-6	tert-Butylbenzene	ND	50	47.3	95	50	49.3	99	4	47-158/30
75-15-0	Carbon disulfide	ND	50	41.4	83	50	43.5	87	5	44-133/30
56-23-5	Carbon tetrachloride	ND	50	44.6	89	50	46.8	94	5	70-132/30
108-90-7	Chlorobenzene	ND	50	45.8	92	50	48.3	97	5	70-130/30
75-00-3	Chloroethane	ND	50	46.3	93	50	46.6	93	1	45-139/30
110-75-8	2-Chloroethyl vinyl ether	ND	50	48.4	97	50	51.3	103	6	10-130/30
67-66-3	Chloroform	ND	50	45.7	91	50	47.7	95	4	70-130/30
95-49-8	o-Chlorotoluene	ND	50	45.5	91	50	49.0	98	7	70-130/30
106-43-4	p-Chlorotoluene	ND	50	46.8	94	50	48.4	97	3	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	46.4	93	50	49.6	99	7	62-130/30
124-48-1	Dibromochloromethane	ND	50	50.4	101	50	53.8	108	7	70-130/30
106-93-4	1,2-Dibromoethane	ND	50	47.4	95	50	50.4	101	6	70-130/30
95-50-1	o-Dichlorobenzene	ND	50	45.3	91	50	47.7	95	5	70-130/30
541-73-1	m-Dichlorobenzene	ND	50	46.1	92	50	48.4	97	5	70-130/30
106-46-7	p-Dichlorobenzene	ND	50	45.3	91	50	47.9	96	6	70-130/30
75-71-8	Dichlorodifluoromethane	ND	50	45.8	92	50	46.8	94	2	10-225/30
75-34-3	1,1-Dichloroethane	ND	50	44.2	88	50	46.1	92	4	63-131/30
107-06-2	1,2-Dichloroethane	ND	50	46.6	93	50	49.9	100	7	63-135/30
75-35-4	1,1-Dichloroethylene	ND	50	43.5	87	50	45.1	90	4	62-130/30
156-59-2	cis-1,2-Dichloroethylene	ND	50	45.2	90	50	47.1	94	4	70-130/30
156-60-5	trans-1,2-Dichloroethylene	ND	50	43.6	87	50	45.5	91	4	67-130/30
78-87-5	1,2-Dichloropropane	ND	50	47.5	95	50	50.7	101	7	70-130/30
142-28-9	1,3-Dichloropropane	ND	50	46.3	93	50	48.7	97	5	70-130/30
594-20-7	2,2-Dichloropropane	ND	50	35.9	72	50	37.3	75	4	32-153/30
563-58-6	1,1-Dichloropropene	ND	50	45.4	91	50	47.4	95	4	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND	50	47.5	95	50	50.7	101	7	68-130/30

\* = Outside of Control Limits.

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# Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: D87423

Account: WESTCOL Weston Solutions, Inc.

Project: Tatooine Industries Rs

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D87360-14MS	7V37921.D	1	10/07/16	TL	n/a	n/a	V7V2110
D87360-14MSD	7V37922.D	1	10/07/16	TL	n/a	n/a	V7V2110
D87360-14	7V37920.D	1	10/07/16	TL	n/a	n/a	V7V2110

The QC reported here applies to the following samples:

Method: SW846 8260B

D87423-3

CAS No.	Compound	D87360-14 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND	50	48.1	96	50	51.1	102	6	70-130/30
100-41-4	Ethylbenzene	ND	50	46.4	93	50	49.0	98	5	63-130/30
87-68-3	Hexachlorobutadiene	ND	50	44.1	88	50	49.9	100	12	41-140/30
591-78-6	2-Hexanone	ND	250	227	91	250	237	95	4	45-140/30
98-82-8	Isopropylbenzene	ND	50	46.9	94	50	50.1	100	7	70-130/30
99-87-6	p-Isopropyltoluene	ND	50	47.3	95	50	49.8	100	5	70-130/30
74-83-9	Methyl bromide	ND	50	42.1	84	50	41.4	83	2	15-151/30
74-87-3	Methyl chloride	ND	50	45.8	92	50	46.1	92	1	24-160/30
74-95-3	Methylene bromide	ND	50	47.1	94	50	49.4	99	5	70-130/30
75-09-2	Methylene chloride	ND	50	42.7	85	50	44.8	90	5	65-130/30
108-10-1	4-Methyl-2-pentanone	ND	250	230	92	250	242	97	5	70-130/30
78-93-3	Methyl ethyl ketone	ND	250	227	91	250	234	94	3	33-152/30
1634-04-4	Methyl Tert Butyl Ether	ND	50	44.3	89	50	46.7	93	5	69-130/30
91-20-3	Naphthalene	ND	50	38.8	78	50	48.8	98	23	55-130/30
103-65-1	n-Propylbenzene	ND	50	47.1	94	50	48.8	98	4	62-132/30
100-42-5	Styrene	ND	50	47.5	95	50	50.3	101	6	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	48.5	97	50	51.8	104	7	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	46.3	93	50	48.2	96	4	70-130/30
127-18-4	Tetrachloroethylene	ND	50	47.7	95	50	49.5	99	4	70-130/30
108-88-3	Toluene	ND	50	44.9	90	50	47.4	95	5	60-130/30
87-61-6	1,2,3-Trichlorobenzene	ND	50	37.7	75	50	49.2	98	26	52-130/30
120-82-1	1,2,4-Trichlorobenzene	ND	50	43.0	86	50	47.1	94	9	60-130/30
71-55-6	1,1,1-Trichloroethane	ND	50	43.9	88	50	45.7	91	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND	50	47.6	95	50	49.7	99	4	70-130/30
79-01-6	Trichloroethylene	ND	50	46.2	92	50	49.2	98	6	70-130/30
75-69-4	Trichlorofluoromethane	ND	50	47.4	95	50	47.7	95	1	54-157/30
96-18-4	1,2,3-Trichloropropane	ND	50	48.9	98	50	46.6	93	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND	50	47.5	95	50	49.5	99	4	65-130/30
108-67-8	1,3,5-Trimethylbenzene	ND	50	47.0	94	50	48.7	97	4	44-155/30
108-05-4	Vinyl Acetate	ND	250	178	71	250	183	73	3	50-133/30
75-01-4	Vinyl chloride	ND	50	49.0	98	50	50.0	100	2	37-146/30
1330-20-7	Xylene (total)	ND	150	139	93	150	148	99	6	67-130/30

\* = Outside of Control Limits.

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6.3.1

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## Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: D87423

Account: WESTCOL Weston Solutions, Inc.

Project: Tatooine Industries Rs

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D87360-14MS	7V37921.D	1	10/07/16	TL	n/a	n/a	V7V2110
D87360-14MSD	7V37922.D	1	10/07/16	TL	n/a	n/a	V7V2110
D87360-14	7V37920.D	1	10/07/16	TL	n/a	n/a	V7V2110

The QC reported here applies to the following samples:

Method: SW846 8260B

D87423-3

CAS No.	Surrogate Recoveries	MS	MSD	D87360-14	Limits
1868-53-7	Dibromofluoromethane	97%	95%	101%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	96%	98%	62-130%
2037-26-5	Toluene-D8	98%	98%	96%	70-130%
460-00-4	4-Bromofluorobenzene	101%	99%	97%	69-130%

\* = Outside of Control Limits.

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6

**Metals Analysis**

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**QC Data Summaries**

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Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

**7**

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks.

Login Number: D87423  
Account: WESTCOL - Weston Solutions, Inc.  
Project: Tatooine Industries Rs

QC Batch ID: MP19992  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: mg/l

Prep Date: 10/11/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.10	.011	.013		
Antimony	0.030	.0021	.0087		
Arsenic	0.025	.0038	.012		
Barium	1.0	.0002	.0004		
Beryllium	0.010	.0009	.0016		
Boron	0.050	.0008	.0036		
Cadmium	0.010	.0002	.0008		
Calcium	0.40	.0024	.01		
Chromium	0.010	.0003	.0007		
Cobalt	0.0050	.0005	.0012		
Copper	0.010	.0008	.0038		
Iron	0.070	.0015	.0069		
Lead	0.050	.0021	.0049	-0.0046	<0.050
Lithium	0.0050	.0004	.0007		
Magnesium	0.20	.0068	.039		
Manganese	0.0050	.0005	.0009		
Molybdenum	2000	.0004	.0036		
Nickel	0.030	.0005	.0027		
Phosphorus	0.10	.015	.034		
Potassium	1.0	.099	.071		
Selenium	0.050	.0071	.01		
Silicon	0.050	.0047	.0084		
Silver	0.030	.0003	.0006		
Sodium	0.40	.0073	.014		
Strontium	0.050	.00001	.0003		
Thallium	0.010	.0018	.008		
Tin	0.050	.012	.012		
Titanium	0.010	.0001	.0027		
Uranium	0.050	.0029	.0044		
Vanadium	0.010	.0004	.0006		
Zinc	0.030	.0004	.0035		

Associated samples MP19992: D87423-1, D87423-2

Results < IDL are shown as zero for calculation purposes  
(\*) Outside of QC limits

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: D87423  
Account: WESTCOL - Weston Solutions, Inc.  
Project: Tatooine Industries Rs

QC Batch ID: MP19992  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: mg/l

Prep Date: 10/11/16

					MB
Metal	RL	IDL	MDL		raw
					final

(anr) Analyte not requested

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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D87423  
Account: WESTCOL - Weston Solutions, Inc.  
Project: Tatooine Industries Rs

QC Batch ID: MP19992  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: mg/l

Prep Date: 10/11/16

Metal	D87626-1A Original MS	Spikelot ICPALL2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.015	0.91	1.0	89.5 75-125
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP19992: D87423-1, D87423-2

Results < IDL are shown as zero for calculation purposes  
(\*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D87423  
Account: WESTCOL - Weston Solutions, Inc.  
Project: Tatooine Industries Rs

QC Batch ID: MP19992  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: mg/l

Prep Date: 10/11/16

	D87626-1A	Spikelot	QC
Metal	Original MS	ICPALL2 % Rec	Limits

(N) Matrix Spike Rec. outside of QC limits  
(anr) Analyte not requested

7.1.2

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D87423  
Account: WESTCOL - Weston Solutions, Inc.  
Project: Tatooine Industries Rs

QC Batch ID: MP19992  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: mg/l

Prep Date: 10/11/16

Metal	D87626-1A Original MSD	SpikeLot ICPALL2	% Rec	MSD RPD	QC Limit
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead	0.015	0.89	1.0	87.5	2.2 20
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP19992: D87423-1, D87423-2

Results < IDL are shown as zero for calculation purposes  
(\*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D87423  
 Account: WESTCOL - Weston Solutions, Inc.  
 Project: Tatooine Industries Rs

QC Batch ID: MP19992  
 Matrix Type: LEACHATE

Methods: SW846 6010C  
 Units: mg/l

Prep Date: 10/11/16

	D87626-1A	Spikelot	MSD	QC
Metal	Original MSD	ICPALL2 % Rec	RPD	Limit

(N) Matrix Spike Rec. outside of QC limits  
 (anx) Analyte not requested

7.1.2

7

## SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D87423  
Account: WESTCOL - Weston Solutions, Inc.  
Project: Tatooine Industries Rs

QC Batch ID: MP19992  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: mg/l

Prep Date: 10/11/16

Metal	BSP Result	Spikelot ICPALL2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.90	1.0	90.0	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP19992: D87423-1, D87423-2

Results < IDL are shown as zero for calculation purposes  
(\*) Outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D87423  
Account: WESTCOL - Weston Solutions, Inc.  
Project: Tatooine Industries Rs

QC Batch ID: MP19992  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: mg/l

Prep Date: 10/11/16

Metal	BSP	Spikelot	% Rec	QC
	Result	ICPALL2		Limits

(anr) Analyte not requested

7.1.3

7

SERIAL DILUTION RESULTS SUMMARY

Login Number: D87423  
Account: WESTCOL - Weston Solutions, Inc.  
Project: Tatooine Industries Rs

QC Batch ID: MP19992  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: ug/l

Prep Date: 10/11/16

Metal	D87626-1A Original SDL 1:5	%DIF	QC Limits
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead	14.8	0.00	100.0(a) 0-10
Lithium			
Magnesium			
Manganese			
Molybdenum			
Nickel			
Phosphorus			
Potassium			
Selenium			
Silicon			
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Uranium			
Vanadium			
Zinc			

Associated samples MP19992: D87423-1, D87423-2

Results < IDL are shown as zero for calculation purposes  
(\*) Outside of QC limits

SERIAL DILUTION RESULTS SUMMARY

Login Number: D87423  
Account: WESTCOL - Weston Solutions, Inc.  
Project: Tatooine Industries Rs

QC Batch ID: MP19992  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: ug/l

Prep Date: 10/11/16

	D87626-1A		QC
Metal	Original SDL 1:5	%DIF	Limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

7.14

7

**Attachment E**

**Abandoned Mercury Emergency Response Trip Report**



Weston Solutions, Inc.  
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Lakewood, Colorado 80215  
303-729-6100 • Fax: 303-729-6101  
www.westonsolutions.com

February 23, 2017

Mrs. Joyce Ackerman  
On-Scene Coordinator  
United States Environmental Protection Agency, Region VIII  
Mail Code: 8EPR-ER  
1595 Wynkoop Street  
Denver, CO 80202

Re: Tatooine Abandoned Mercury Emergency Response  
Burns, Laramie County, Wyoming  
TDD: 0001/1606-20  
DCN: W0389.1A.01045  
WO#: 20408.012.001.0389.00

Dear Mrs. Ackerman:

The United States Environmental Protection Agency (EPA) tasked the Weston Solutions, Inc., (WESTON®) Superfund Technical Assessment and Response Team (START) under Technical Direction Document (TDD) 0001/1606-20 to support EPA's emergency response at the Tatooine Industries Abandoned Mercury Response in Burns, Laramie County, Wyoming. The response was initiated to mitigate immediate threats to human health and the environment from abandoned mercury containers, located approximately 20 miles east of Cheyenne, Wyoming (the Site). Figures are provided in Attachment A. A copy of the site logbook is provided in Attachment B. Photo documentation is provided in Attachment C.

#### **SITE DESCRIPTION**

The Site (41.157761 north and -104.446838 west) is located in primarily pastoral lands east of Cheyenne, Laramie County, Wyoming (Attachment A, Figure 1). The site is roughly 7 acres and is not fenced on any side of the property (Attachment A, Figure 2). The Site is bordered to the north, west and east by pastoral lands, to the south by the I-80 access road.

#### **BACKGROUND**

The business was an electronic waste recycling facility, which has been abandoned for a number of years. The Wyoming Department of Environmental Quality (WYDEQ) had information regarding the location of the mercury in multiple refrigerators in the northeast corner of the warehouse. EPA OSC Ping Chau, EPA representative Chris Poulet, and WESTON START members Eric Sandusky (R1) and Michael Cherny (R2), responded to the incident. EPA also mobilized Environmental Restoration, EPA's Emergency and Rapid Response Services (ERRS) contractor, to dispose of mercury and mercury contaminated items.

## EMERGENCY RESPONSE ACTIVITIES

On June 30, 2016, START personnel Eric Sandusky, and Michael Cherny, mobilized from Denver, Co to the site located in Burns, Wy. with OSC Ping Chau, and EPA representative Chris Poulet. START and EPA met with Joel Frost from WYDEQ and ERRS for directions to the site. OSC Chau contacted the Wyoming Sheriff's department to clear the building of possible vagrants. After performing acceptable calibration verification checks, START utilized a Multi-RAE Pro, and a Lumex® Mercury Vapor Analyzer (Lumex®) to screen the warehouse for Volatile Organic Compounds (VOC), Lower Explosive Limit (LEL), Carbon Dioxide (CO), Hydrogen Sulfide (H<sub>2</sub>S), Oxygen (O<sub>2</sub>), and mercury vapors. During the initial screening of the warehouse, START was escorted by the sheriff's office. Background readings for mercury were taken outside the warehouse with a reading of 10 nanograms per cubic meter (ng/m<sup>3</sup>), while the interior reading of the main warehouse was 80 ng/m<sup>3</sup>. The seals around the refrigerators where the mercury was stored read 300 ng/m<sup>3</sup>. Utilizing the Multi-Rae Pro, readings for LEL, CO, VOC, O<sub>2</sub>, and H<sub>2</sub>S were found to be within safe working limits without the use of Personal Protective Equipment.

EPA's ERRS contractor removed approximately 100 pounds of mercury from three refrigerators in the northeast corner of the main warehouse. Upon completion of the removal, START screened the refrigerators with the Lumex®. The Lumex® indicated mercury levels of 2500 ng/m<sup>3</sup> in the large refrigerator, 1200 ng/m<sup>3</sup> in the freezer, 6300 ng/m<sup>3</sup> in the small black refrigerator, and 2100 ng/m<sup>3</sup> in the medium white refrigerator. ERRS double bagged the small black refrigerator and disposed of it as contaminated waste.

If there are any questions or comments regarding this report, please do not hesitate to contact me at [eric.sandusky@westonsolutions.com](mailto:eric.sandusky@westonsolutions.com) or 303-729-6100.

Very truly yours,  
WESTON SOLUTIONS, INC.



Eric Sandusky  
START Project Leader

### Attachments:

- A – Figures
- B – Copy of site logbook
- C – Photographic Log

cc: Robert Reed, Project Manager  
START DCN File

## **Attachment A**

### **Figures**

**Attachment B**

**Site Logbook**

**Attachment C**  
**Photographic Log**